

WHAT IS CLAIMED IS:

1. A method for concurrently providing a first service between a mobile station and a mobile switching center (MSC) and a second service between the mobile station and a packet data service network (PDSN) in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

forming, in the base station, a signaling link for the first service between the base station and the MSC;

receiving, in the base station, a service request signal for the second service from the PDSN while providing the first service;

upon receipt of the service request signal for the second service, sending, from the base station, a resource assignment request for the second service to the MSC through the formed signaling link; and

receiving, by the base station, a resource assignment approval signal from the MSC through the formed signaling link.

2. The method as claimed in claim 1, further comprising the step of making a service negotiation for addition of the second service between the base station and the mobile station in response to the resource assignment approval signal.

3. A method for concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

upon receipt of a service request for the first service from the MSC to the mobile station while providing the second service, receiving, by the base station, a concurrent service request based on the service request of the first service from the MSC through a previously or newly formed signaling link between the base station and the MSC;

5 in response to the concurrent service request, sending in the base station a resource assignment request for the first service to the MSC through the formed signaling link; and

receiving, by the base station, a resource assignment approval signal from the MSC through the formed signaling link.

10 4. The method as claimed in claim 3, further comprising the step of making a service negotiation for addition of the first service between the base station and the mobile station in response to the resource assignment approval signal.

15 5. A method for concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

20 receiving in the base station an origination request for the second service from the mobile station while providing the first service;

in response to the origination request, sending from the base station to the MSC a resource assignment request for origination of a new service through a signaling link formed to provide the first service between the base station and the MSC; and

25 receiving, by the base station, a resource assignment approval signal from the MSC through the formed signaling link.

6. The method as claimed in claim 5, further comprising the step of making a service negotiation for addition of the second service between the base station and the mobile station in response to the resource assignment approval signal.

5 7. A method for concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

10 receiving in the base station an origination request for the first service from the mobile station while providing the second service;

in response to the origination request, forming in the base station a signaling link between the base station and the MSC;

15 sending in the base station a resource assignment request for the first service to the MSC through the formed signaling link; and

receiving, by the base station, a resource assignment approval signal from the MSC through the formed signaling link.

20 8. The method as claimed in claim 7, further comprising the step of making a service negotiation for addition of the first service between the base station and the mobile station in response to the resource assignment approval signal.

25 9. A method for clearing one service while concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

receiving in the base station a service clear request for the first service from the mobile station while concurrently providing the first service and the second service;

in response to the service clear request for the first service, sending from the base station a service clear request message to the MSC through a signaling link formed for the first service;

receiving, by the base station, information indicating resources assigned for the first service from the MSC through the signaling link; and

clearing, by the base station, the resource assigned for the first service and the signaling link.

10. The method as claimed in claim 9, further comprising the step of making a service negotiation for clearance of the first service between the base station and the mobile station.

11. A method for clearing one service while concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

receiving in the base station a service clear request for the second service from the mobile station while concurrently providing the first service and the second service;

in response to the service clear request for the second service, sending from the base station a service clear request message to the MSC through a signaling link formed for the first service;

receiving, by the base station, information indicating resources assigned for the second service from the MSC through the signaling link; and

clearing, by the base station, the resource assigned for the second service and the

signaling link.

12. The method as claimed in claim 11, further comprising the step of making a service negotiation for clearance of the second service between the base station and the mobile station.

13. The method as claimed in claim 11, wherein even when the second service is cleared, the signaling link is maintained for the first service.

14. A method for clearing one service while concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

receiving in the base station a service clear request for the second service from the PDSN while concurrently providing the first service and the second service;

in response to the service clear request for the second service, sending in the base station a service clear request message to the MSC through a signaling link formed for the first service;

receiving, by the base station, information indicating resources assigned for the second service from the MSC through the signaling link; and

clearing, by the base station, the resource assigned for the second service and the signaling link.

15. The method as claimed in claim 14, further comprising the step of making a service negotiation for clearance of the second service between the base station and the mobile station.

16. The method as claimed in claim 14, wherein even when the second service is cleared, the signaling link is maintained for the first service.

5 17. A method for clearing one service while concurrently providing a first service between a mobile station and an MSC and a second service between the mobile station and a PDSN in a mobile communication system including the mobile station, a base station in communication with the mobile station, the MSC connected to the base station, and the PDSN connected to the base station, the method comprising the steps of:

10 upon request of the first service clearing in the MSC while concurrently providing the first service and the second service, receiving, by the base station, information indicating resources assigned for the first service from the MSC through the signaling link; and

15 clearing, by the base station, the resource assigned for the first service and the signaling link.

18. The method as claimed in claim 17, further comprising the step of making a service negotiation for clearance of the first service between the base station and the mobile station.